DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

MATH 05   Quiz 4

Nikos Apostolakis   September 26, 2008

Name: _____

1. Solve each of the following equations:

    (a) $2x - 3(x - 5) = 4x - 10$

    (b) $5x - 6(x - 5) = 12 - x$

    (c) $\dfrac{2x - 9}{3} + \dfrac{x}{3} = x - 3$

2. The length of a rectangle is 4 units more than twice its width. Find the dimensions of the rectangle if its perimeter is 26 units.

3. Can you find a linear equation with one variable that has exactly three solutions?

4. **Extra Credit:** Find the real number a if -3 is a solution of the equation:

$$ax - 25 = 2a$$